GUIDE TO THE
MARINE EDUCATION MATERIALS SYSTEM

by
Susan C. Gammisch
and
James A. Lanier

Educational Series No: 22

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VIRGINIA INSTITUTE OF MARINE SCIENCE
Gloucester Point, Virginia 23062
Guide to the
MARINE EDUCATION MATERIALS SYSTEM (MEMS)

by
Susan C. Gammisch

and
James A. Lanier

Edited by Dick Cook

Educational Series #22 of the

Virginia Institute of Marine Science
Gloucester Point, VA 23062

William J. Hargis, Jr., Director

1978
THE MARINE EDUCATION MATERIALS SYSTEM (MEMS) is a project supported by the Office of Sea Grant, National Oceanic and Atmospheric Administration (NOAA), Department of Commerce. Entries to the system are compiled by the education staff of the Virginia Institute of Marine Science. Susan C. Gammisch serves as the MEMS coordinator. The system is a part of the VIMS Marine Education Program, directed by James A. Lanier.

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Grade Level Index................................................(on microfiche, inside back cover)
PREFACE

The National Sea Grant Program has gained a reputation for realizing maximum effect for funds invested in research, advisory services and education. Through its network of scientists, advisory personnel, communicators and educators, Sea Grant initiatives have an impact far in excess of what might be expected from the level of funding involved. The projects begun with the "supplemental funds" for marine education provided by Sea Grant in 1977 are good examples. They emphasize teacher education and curriculum development, taking full advantage of the pyramid or multiplier effect by teaching the teachers and providing them with the tools they need. The teachers, in turn, will "make known the world of water" to all our citizens.

This new support for curriculum development has increased the possibility of duplication, making the coordination of effort and efficient dissemination of materials even more important. The Marine Education Materials System (MEMS) has been designed to help meet these needs by providing for the collection, storage, retrieval and improved dissemination of all the written tools required for "marinating" American education.

The Guide to the Marine Education Materials System consists of an explanation of MEMS and how to use it, an ongoing list of the publications which have been entered, an index of descriptors and listings of entries by author and grade level. Using the index of
descriptors, it is possible to conduct a manual cross-referenced search of MEMS entries.

Although this first edition of the guidebook has been edited and corrected, changes will be made as entries to the system continue. It is being printed so that potential users may immediately suggest improvements and become familiar with the information in MEMS. Comments, suggestions and input for the system will always be welcomed.

Susan C. Gemmisch
and
James A. Lamler
INTRODUCTION

THE MARINE EDUCATION MATERIALS SYSTEM provides computer access to a broad range of materials useful in adding a marine emphasis at any level of the educational process. Saltwater and freshwater curricula, laboratory guides and field guides are included. The system was developed to answer the need for a centralized source of information on marine education. Materials are indexed at the Virginia Institute of Marine Science, Gloucester Point, Virginia. There are nine additional regional MEMS distributors across the country (Page 14). Computer searches can be arranged through VIMS, but manual searches should be adequate at present.

All documents designed for use by marine educators, such as curriculum guides, laboratory manuals and field guides, can be included in MEMS. Some older documents are not only historically valuable, but are still largely useful. In addition, some less valuable publications have been included for the sake of completeness. No evaluations of materials have been included, although this may be done in the future.

Collection of material began in November 1976. By July 1977, approximately 200 entries had been assembled. Lists of these documents were distributed at the 1977 National Marine Education Association Conference in Newark, Delaware. An overview of the plan for MEMS was also presented at that time.

Marine educators from Sea Grant programs across the country were then
asked to join with VIMS in building and operating the system. Their contributions, as well as their efforts to assist others in retrieving material, have been invaluable.

Most of the documents in MEMS are available on microfiche for the cost of reproduction. Those documents which have not been cleared for reproduction are available for review at any of the MEMS Sea Grant distribution centers.

Persons interested in contributing to the system are invited to send, at any time, published or unpublished materials to:

MARINE EDUCATION MATERIALS SYSTEM
Marine Education Center
Virginia Institute of Marine Science
Gloucester Point, VA 23062
(804) 642-2111, ext. 111
HOW TO USE THE SYSTEM

PRINTOUT EXPLANATION SHEET

Entries in the Marine Education Materials System contain the following information in the order indicated:

(A) Accession Number
(B) Year of Publication (N.D. appears here if the date is unknown)
(C) Author(s) (Last name, first initial)
(D) Title
(E) Reference (State, agency or publication; number of pages)
(F) Descriptors
(G) Type of document (Lesson plan, curriculum, lab guide, field guide, etc., see pages 11-12)
(H) Use: Grade Level. For use by Teacher (T) or Students (S):
Grade Level (P = K to 3, U = 4 to 6, I = 7 to 9, H = 10 to 12, and A = accelerated high school, adult, college).

An example of an actual entry follows:

0000038
1969
TAYLOR, B
THE FIELD APPROACH TO COASTAL ECOLOGY - SPRING UNIT
NC: REG MAR SCI PROJ, CARTERET COUN PUB SCHOOLS, BEAUFORT, NC; 39 pp.
FIELD TRIP; OUTER BANKS; PLANT; BEACH; MARITIME FOREST; INTERTIDAL AREA; DUNE; WETLAND; EROSION; COMMUNITY; COASTAL PLAIN; BIOLOGY UNIT
T: I, H

Information in marine education can be retrieved in three ways using the Guide to the Marine Education Materials System. Each is described below.

A. SUBJECT INDEX:

Descriptors, sometimes called key words, or subject index terms, are labels assigned to materials being entered to facilitate retrieval. They are more complete, better standardized and often more descriptive
than titles. Their selection is not a simple task, however, and can result in disagreements, duplications or omissions. Minimizing such problems is the responsibility of the indexer.

In selecting descriptors for the thesaurus an attempt was made to keep the language simple and understandable yet accurate and descriptive.

Some common words, such as "ecology" have been omitted because they are too broad. Some broad terms have, however, been used. Examples include "biology" and "physics". The use of more specific descriptors generally will provide better results.

Names of organisms, such as "clam", "anemone" or "sea urchin" are included along with the phylum or class to which each belongs. Common names such as "bird", "fish", "mammal", "worm" and "insect" are used wherever they serve as well or better than similar technical terms.

In order to retrieve information by subject, the thesaurus can be used to find the terms applicable to the topics sought. These terms can be found in the YELLOW SECTION of the Guidebook. Entries can be located by using the accession numbers listed after each term (see below).

Sample 1.
CORIOLIS EFFECT
000010     000013     000031

The term CORIOLIS EFFECT appears in articles number 000010, 000013 and 000031.

Cross-referencing can be done by those interested in documents containing information on two or more descriptors. For example, to find
information on the communication of dolphins, "COMMUNICATION" and "DOLPHIN" could each be examined individually, thus searching for articles in which both terms appear (see below).

Sample 2.
COMMUNICATION
000179  000212  000248  000260  000335  000390
000392  000393  000395

DOLPHIN
000118  000150  000335  000390  000396  000397

In this example, if you were seeking information on the communication of dolphins, you would use articles number 000335 and 000390 in which both terms appear.

B. AUTHOR INDEX:

Another way to retrieve information is through the author index, in which documents are listed in alphabetical order by the author's last name. It is possible to retrieve information by any author, regardless of the order in which authors' names appear on publications. If an author has written more than one document found in MEMS, they will all be listed by accession number under that author's name (see below).

Sample 3.
******Abel, R.
000236
N.D.
ABEL, R.
SOME THOUGHTS ABOUT CONSIDERING A CAREER IN OCEANOGRAPHY
UNKNOWN: 5 pp.
CAREER; EDUCATION; EMPLOYMENT
ARTICLE
T, S: H

5
Articles appear under every author's last name, whether they are the first, middle or last listed on the actual publication. The Author Index is found on microfiche inside the back cover of this Guidebook.

C. GRADE LEVEL INDEX:

A third way of retrieving information is by grade level. The following format has been used in assigning grade levels to articles:

<table>
<thead>
<tr>
<th>Designation</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>P = Primary</td>
<td>K-3</td>
</tr>
<tr>
<td>U = Upper Elementary</td>
<td>4-6</td>
</tr>
<tr>
<td>I = Intermediate</td>
<td>7-9</td>
</tr>
<tr>
<td>H = High School</td>
<td>10-12</td>
</tr>
<tr>
<td>A = Advanced</td>
<td>Accelerated high school, adult, college</td>
</tr>
</tbody>
</table>

Documents are listed by accession number under the corresponding grade level. Thus, if searching for first grade level materials, look for P designations in the guidebook (see below).
Information can be retrieved by grade level simply by looking up the corresponding letter for that particular grade. The Grade Level Index is found on microfiche inside the back cover of this Guidebook.
EXPLANATION OF NOTATIONS

DESCRIPTOR. Descriptors are terms which can be used to retrieve information from the system. In the sample (p. 10), main entries are shown for the descriptors "CRAYFISH", "REPTILE", "INDUSTRY" AND "FOODWEB". "COASTAL ZONE MANAGEMENT" is not a valid descriptor.

BT = BROADER TERM. The main entry descriptor can also be found in the thesaurus as a narrower term under any broader terms listed with it. Broader terms should be included by the indexer whenever the main entry descriptor is assigned to an article. For example, the descriptor CRAYFISH appears as a narrower term under "CRUSTACEAN", and "CRUSTACEAN" should be assigned to every article in which CRAYFISH appears. This assignment is done by the indexer, not the computer, and is subject to error. The hierarchies revealed by the BT and NT relationship are sometimes subjective. Since the thesaurus has been constructed as the articles indexed required, the hierarchical arrangement is necessarily imperfect. It is employed as an aid to users in developing better ways to retrieve information.

NT = NARROWER TERM. The reciprocal of BT. Appropriate narrower terms should be used in a search to insure retrieval of all desired information.

RT = RELATED TERM. Descriptors following this notation are suggestions from indexer to user about other terms in the thesaurus which may be of interest. Relationships thus indicated vary considerably, from near synonyms to antonyms.
USE = USE. The main entry is a term not used in MERS indexing, but is included in order to direct the user to a valid descriptor. The term following "USE" is the appropriate valid descriptor.

UF = USED FOR. The reciprocal of USE. The subject index term at the main entry is used for, or instead of, words following this notation. Information cannot be retrieved by using the terms following UF. Many invalid terms so listed are quite acceptable, perhaps even more so than the descriptor used in its place. If another term has been used in the past, however, it will continue to be used because of the difficulty of changing all the previous indexing.
SAMPLE ENTRIES

The following entries are from the thesaurus of descriptors.

<table>
<thead>
<tr>
<th>ENTRY</th>
<th>MEANING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CRAYFISH</td>
<td>BT = Broader Term (all CRAYFISH are CRUSTACEANS)</td>
</tr>
<tr>
<td>BT CRUSTACEAN</td>
<td></td>
</tr>
<tr>
<td>2. REPTILE</td>
<td>NT = Narrower term (all TURTLES are REPTILES)</td>
</tr>
<tr>
<td>NT TURTLE</td>
<td></td>
</tr>
<tr>
<td>3. INDUSTRY</td>
<td>RT = Related term (ENGINEERING and SHIPBUILDING are related to INDUSTRY)</td>
</tr>
<tr>
<td>RT ENGINEERING SHIPBUILDING</td>
<td></td>
</tr>
<tr>
<td>4. COASTAL ZONE MANAGEMENT</td>
<td>USE = Use (COASTAL ZONE MANAGEMENT is not a descriptor used in this system. Use MANAGEMENT instead)</td>
</tr>
<tr>
<td>USE MANAGEMENT</td>
<td></td>
</tr>
<tr>
<td>5. FOOD WEB</td>
<td>UF = Used for (FOOD CHAIN is not a descriptor used in this system. FOOD WEB is used instead)</td>
</tr>
<tr>
<td>UF FOOD CHAIN</td>
<td></td>
</tr>
</tbody>
</table>
TYPES OF DOCUMENTS INCLUDED IN MEMS

1. ACTIVITY - designed to be used in the classroom vs. the laboratory.

2. ARTICLE, BOOKLET - general or background information on a particular subject.

3. ARTS AND CRAFTS - usually an activity to make an art form or craft out of a marine object.

4. COLORING BOOK - (self-explanatory)

5. CONFERENCE PROCEEDINGS - (self-explanatory)

6. CURRICULUM - an outline to be followed for an extended period of time such as a semester or quarter; usually includes concepts, goals, objectives, activities.

7. DEMO (DEMONSTRATION) - activities to be performed by the instructor to clarify subject matter.

8. DIAGRAMS - sketches designed for class use on an overhead projector.

9. FICTION - a booklet or story based on factual information in a fictional setting.

10. FIELD GUIDE - a guide of possible field activities, places to visit, safety precautions, checklists.
11. FILM LIST - (self-explanatory)

12. FILMSTRIP GUIDE - (self-explanatory)

13. FLASH CARDS - (self-explanatory)

14. LAB EX (LAB EXERCISE) - an activity to be performed, usually by the student, to enhance information learned in class.

15. LESSON PLAN - a guideline usually for one class session, usually includes objectives.

16. REFERENCE - bibliographies, identification guides, college program information.

17. TEACHING GUIDE - Guides to textbooks, units or curricula.

18. TEXTBOOK - (self-explanatory)

19. UNIT - a group of lessons on a particular subject such as ecosystems. Goals, objectives and information on the subject are usually included.

20. WORKBOOK, WORKSHEET - a booklet or page of activities designed to enrich learning experiences.
# ABBREVIATIONS

The following abbreviations have been used in the indexing of MEMS documents:

## State abbreviations:

<table>
<thead>
<tr>
<th>State</th>
<th>Abbreviation</th>
</tr>
</thead>
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<td>Alabama</td>
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<td>West Virginia</td>
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## Other Abbreviations:

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</tr>
<tr>
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<tr>
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</tbody>
</table>
SEA GRANT DISTRIBUTION CENTERS

Access to the Marine Education Materials System is available from the distributors listed below. Each of these centers has a complete collection of MEMS microfiche and can provide assistance to interested parties.

**EAST COAST**
Robert W. Stegner  
310 Willard Hall  
University of Delaware  
Newark, DE 19711  
(302) 738-2331

Susan C. Gammisch  
Marine Education Center  
Virginia Institute of Marine Science  
Gloucester Point, VA 23062  
(804) 642-2111

**GULF COAST**
Jim Schweitzer  
Center for Wetlands Resources  
Louisiana State University  
Baton Rouge, LA 70803  
(504) 388-1558

**WEST COAST**
Will Hon  
Marine Extension Center  
Skidaway Island  
Savannah, GA 32406  
(915) 352-1631

**NEW ENGLAND**
Don Giles/Vicki Osis/  
Marilyn Guin  
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Oregon State University  
Newport, OR 97365  
(503) 867-3011

**HAWAII**
John McMahon  
Marine Education Training Program  
2560 Campus Road  
George Hall 230  
Honolulu, HI 96822  
(808) 948-8444 or 948-8433

**GREAT LAKES REGION**
Prentice K. Stout  
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University of Rhode Island  
Narragansett Bay Campus  
Narragansett, RI 02882  
(401) 792-6211

Leslie Lin  
Marine Advisory Services  
University of Michigan  
Ann Arbor, MI 48109  
(313) 764-1118

Dotti Bjur  
USC Sea Grant Program  
University of Southern California  
University Park  
Los Angeles, CA 90007  
(213) 741-6068  
(503) 867-3011
THESAURUS OF DESCRIPTORS
LAGOON USE ESTUARY

LANGUAGE USE LITERATURE

LARVA USE LIFE CYCLE

LATITUDE RT LONGITUDE NAVIGATION

LAW UF REGULATION

LIBRARY

LIFE CYCLE UF DEVELOPMENT GROWTH LARVA LIFE HISTORY POLYP RT BEHAVIOR MOLT

LIFE HISTORY USE LIFE CYCLE

LIGHT RT PHOTOSYNTHESIS REFRACTION

LIGHTHOUSE RT NAVIGATION

LIGHTING USE PHOTOGRAPHY

LIMNOLOGY

LIMPET BT MOLLUSK

LITERATURE UF ENGLISH LANGUAGE BT HUMANITIES

LITTORAL DRIFT USE SAND MOVEMENT

LITTORAL ZONE USE INTERTIDAL AREA

LOBSTER BT CRUSTACEAN

LOCOMOTION

LONGITUDE RT LATITUDE NAVIGATION

LONGSHORE CURRENT

MAGAZINE USE PERIODICAL

MAMMAL NT DOLPHIN UTTER PORPOISE SEAL SEA LION WALRUS WHALE

MANAGEMENT UF COASTAL ZONE MANAGEMENT

MANGROVE BT PLANT

MANPOWER USE CAREER

MARICULTURE USE AQUACULTURE

MARITIME FOREST

MARSH USE WETLAND

MATH UF ARITHMETIC

MEDUSA USE COELENTERATE

METEOROLOGY

MIGRATION

MILITARY

MINERAL USE RESOURCE
MOLLUSK
UF BIVALVE
UNIVALVE
NT CLAM
LIMPET
MUSSEL
OCTOPUS
OYSTER
SCALLOP
SNAIL
SQUID

MOLT
UF ECDYSIS
RT LIFE CYCLE

MUDFLAT
RT INTERTIDAL AREA

MUSEUM

MUSIC

MUSSEL
BT MOLLUSK

MUTUALISM
USE SYMBIOSIS

NAVIGATION
RT LATITUDE
LIGHTHOUSE
LONGITUDE

NEKTON

NETTLE
UF STINGING NETTLE
BT COELENTERATE

NEWSLETTER
USE PERIODICAL

NUTRITION
UF FOOD VALUE
RT DIGESTION
SEAFOOD

OCCUPATION
USE CAREER

OCEANARIUM
UF PUBLIC AQUARIUM
RT FRESHWATER AQUARIUM
SALTWATER AQUARIUM

OCEAN FLOOR
UF ABYSS
CONTINENTAL SHELF
CONTINENTAL SLOPE
RIDGE
TRENCH

OCTOPUS
BT MOLLUSK

OIL

OSMOSIS

OTTER
BT MAMMAL

OUTER BANKS

OXYGEN
UF DISSOLVED OXYGEN

OYSTER
BT MOLLUSK

PARASITISM
USE SYMBIOSIS

PATHOLOGY
RT BACTERIA

PERIODICAL
UF BULLETIN
JOURNAL
MAGAZINE
NEWSLETTER

PERSONNEL
USE CAREER

PH

PHOTOGRAPHY
UF CAMERA
FILM
LIGHTING
SLIDE

PHOTOSYNTHESIS
RT LIGHT
PLANT

PHYSICS

PHYTOPLANKTON
USE PLANKTON

PLANKTON
UF PHYTOPLANKTON
ZOOPLANKTON
RT ALGAE
COPEPOD
SEAWEED

PLANT
UF BOTANY
VEGETATION
NT ALGAE
MANGROVE
SEAWEED

PLATE TECTONICS
UF SEA FLOOR SPREADING

POCOSIN
USE WETLAND

POLLUTION

POLYP
USE LIFE CYCLE

POPULATION

PORIFERA
USE SPONGE

PORPOISE
BT MAMMAL
RT DOLPHIN
WHALE

PRESSURE

PROFILE

PROTECTION

PROTOZOA

PUBLIC AQUARIUM
USE OCEANARIUM

PUZZLE

RATIONALE

RECIPEDRT SEAFOOD

RECREATION
RT HARVESTING

RED TIDE
RT ALGAE

REEF
RT CORAL

REFRACTION
RT LIGHT
WAVE

REGENERATION

REGULATION
USE LAW

REPRODUCTION
RT LIFE CYCLE

REPTILE
NT TURTLE

RESEARCH

RESOURCE
UF MINERAL

RESPIRATION

REVIEW

RIDGE
USE OCEAN FLOOR

RIVER
RT CANAL
ESTUARY
STREAM

SAFETY

SALINITY

SALT MARSH
USE WETLAND

SALTWATER AQUARIUM
BT AQUARIUM
RT FRESHWATER AQUARIUM
OCEANARIUM

SAND
RT BEACH
DUNE
SAND MOVEMENT

SAND DOLLAR
BT ECHINODERM

SAND MOVEMENT
UF LITTORAL DRIFT
RT SAND

SCALLOP
BT MOLLUSK

SCUBA
USE DIVING

SEA CUCUMBER
BT ECHINODERM

SEA FLOOR SPREADING
USE PLATE TECTONICS

SEAFOOD
RT NUTRITION
RECIPE

SEAL
BT MAMMAL
RT SEA LION

SEA LEVEL

SEA LION
BT MAMMAL
RT SEAL

SEA OTTER
USE OTTER

SEASHORE
USE BEACH
COASTLINE

SEA SQUIRT
USE TUNICATE

SEA STAR
UF STARFISH
BT ECHINODERM

SEA URCHIN
BT ECHINODERM

SEAWEEDE
BT PLANT

RT ALGAE
PLANKTON

SEDIMENT

SHARK
BT FISH

SHELL
UF EXOSKELETON

SHIPBUILDING
RT INDUSTRY

SHORELINE
USE COASTLINE

SHRIMP
BT CRUSTACEAN

SIMULATION GAME

SLIDE
USE PHOTOGRAPHY

SNAIL
UF CONCH
WHELK
BT MOLLUSK

SNORKELING
USE DIVING

SOCIAL STUDIES
BT HUMANITIES

SOUND

SPONGE
UF PORIFERA

SQUID
BT MOLLUSK

STARFISH
USE SEA STAR

STINGING NETTLE
USE NETTLE

STINGRAY
BT FISH

STREAM
RT CANAL
RIVER

STRUCTURE
USE ANATOMY

SUBMERSIBLE

SURVEY

SWAMP
USE WETLAND

SYMBIOSIS
UF COMMENSALISM
MUTUALISM
PARASITISM

TAXONOMY
USE IDENTIFICATION

TEACHING MODEL
USE INSTRUCTION

TEMPERATURE
UF THERMOCLINE

THERMOCLINE
USE TEMPERATURE

TIDAL WAVE
USE TSUNAMI

TIDE
RT CIRCULATION
CURRENT
INTERTIDAL AREA

TIDE POOL
BT INTERTIDAL AREA

TRADE
RT CAREER

TRAINING
RT CAREER
EMPLOYMENT
INSTRUCTION
TRADE

TRANSPORTATION

TREATMENT

TRENCH
USE OCEAN FLOOR

TSUNAMI
UF TIDAL WAVE

TUNICATE
UF SEA SQUIRT

TURBIDITY

TURTLE
BT REPTILE

UNIVALVE
USE MOLLUSK

UPWELLING

VEGETATION
USE PLANT

VESSEL

VOCABULARY
UF GLOSSARY

WALRUS
BT MAMMAL

WATERFOWL
USE BIRD

WATER QUALITY

WAVE
RT REFRACTION

WEATHER

WETLAND
UF MARSH
POCOSIN
SALT MARSH
SWAMP
RT COASTLINE
INTERTIDAL AREA

WHALE
BT MAMMAL
RT DOLPHIN
PORPOISE

WHELK
USE SNAIL

WIND
WORM

ZONATION

ZOOPLANKTON
USE PLANKTON
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| ALGAE     | 000010 | 000036 | 000037 | 000047 | 000049 | 000085 | 000103 | 000104 | 000105 |
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|           | 000297 | 000303 | 000329 | 000344 | 000348 | 000365 | 000376 | 000378 | 000382 |
| AMPHIBIAN | 000138 | 000150 | 000311 |
| ANATOMY   | 000090 | 000108 | 000166 | 000175 | 000186 | 000213 | 000214 | 000221 | 000232 |
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|           | 000200 | 000203 | 000246 | 000254 | 000258 | 000259 | 000260 | 000265 | 000266 |
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| BACTERIA  | 000037 | 000079 | 000109 | 000237 | 000276 | 000287 | 000322 | 000329 | 000345 |
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LISTING OF AVAILABLE ENTRIES
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000001
1968
BAILEY, R.; BIGGS, F.
THE ADVENTURES OF LITTLE OYSTER
VA: VIMS EDUC SER 7: 23PP.
BIOLOGY; OYSTER; MOLLUSK; LIFE CYCLE
FICTION
T S : P U

000002
N.D.
CREWS, A.; WOODALL, M.; AWKERMAB, G.; TELLER, P.
ANIMALS OF THE SEA: COELENTERATES
SC: CHARLESTON COUN OCEAN SCI PROJ; 40PP.
BIOLOGY; COELENTERATE; ANEMONE; CCRAL; BEHAVIOR; PLANKTON; REPRODUCTION;
HYDRA; LOCOMOTION
UNIT; LAB EX
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000003
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CREWS, A.; WOODALL, M.; AWKERMAM, G.; TELLER, P.
ANIMALS OF THE SEA: CTENOPHORES
SC: CHARLESTON COUN OCEAN SCI PROG; 12PP.
BIOLOGY; CTENOPHORE
UNIT; LAB EX
T : H

000004
N.D.
CREWS, A.; WOODALL, M.; AWKERMAM, G.; TELLER, P.
ANIMALS OF THE SEA: PROTOZOANS
SC: CHARLESTON COUN OCEAN SCI PROJ; 14PP.
BIOLOGY; PROTOZOA; SEDIMENT; TEMPERATURE
UNIT; LAB EX
T : H

000005
1975
HEITZMANN, W.
AMERICA'S FORGOTTEN MARITIME HERITAGE: A BICENTENNIAL TREASURE
SOCIAL EDUC, OCT 1975: 460-466
HISTORY; HERITAGE; LITERATURE; FISHERY; TRADE; CAREER; MUSEUM
ARTICLE
T : P U I H A
CREWS, A.; WOODALL, M.; AMKERMANN, G.; TELLER, P.
ANIMALS OF THE SEA: SPONGES
SC: CHARLESTON COUN CCEAN SCI PRG; 24PP.
BIOLOGY; SPONGE; FISHERY; REPRODUCTION
UNIT: LAB EX
T : H

PARMER, C.
ANIMALS WITH SHELLS - SEASHHELLS
FL: FL 4-H MAR PRG, COOP EXT SERV, UNIV OF FL, GAINESVILLE, FL; 5PP.
SHELL; MOLLUSK; IDENTIFICATION
ARTICLE
S : U T

STEIGNER, R.
AN ANNOTATED BIBLIOGRAPHY OF PERIODICAL SOURCES FOR MARINE ENVIRONMENT STUDIES
DE: PROJ COAST, UNIV OF DE, SG PRG; 21PP.
PERIODICALS; BIBLIOGRAPHY
REFERENCE
T S : A

WEEKS, T.; LEVITAN, B.
ANNOTATED LIST OF FILMS FOR USE IN COASTAL AND MARINE STUDIES
DE: PROJ CCOAST, UNIV OF DE; 23PP.
FILM LIST
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T : P U I H A

ELLIOIOTT, J.; LEE, R.
AQUACULTURE - A COURSE OF STUDY FOR SAND POINT SECONDARY SCHOOL
AK: AK SG PROG, UNIV OF AK; 88PP.
AQUACULTURE; BIOLOGY; FISHERY; INSECT; LIFE CYCLE; REPRODUCTION;
RESPIRATION; PHOTOSYNTHESIS; CSOMOSIS; PATHOLOGY; MOLLUSK; ECHINODERM;
IDENTIFICATION; MAMMAL; BIRD; FOOD WEB; GEOLOGY; REEF; SEDIMENT;
CHEMISTRY; PHYSICS; TIDE; DENSITY; WAVE; TSUNAMI; CURRENT;
CRIODIS EFFECT; ICE; METEOROLOGY; ESTUARY; PLANKTON; CCASTLINE; BENTHOS;
POLLUTION; FISH; CRAB; SHRIMP; EROSION; ALGAE
CURRICULUM
T : I H
WINGET, R.
AQUATIC LIFE IN A UTAH DESERT
AMER B I O L T E A C H E R; 39(5): 275-284
BIOLOGY; INSECT; HABITAT; PLANT
ARTICLE
T S : H A

CREWS, A.; WOODALL, M.; AWKERMAN, G.; TELLER, P.
ASPECTS OF MARINE ECOLOGY
SC: CHARLESTON CC UN OCEAN SCI PROJ; 53PP.
BIOLOGY; FOOD WEB; PLANKTON; TEMPERATURE; POLLUTION; WETLAND; CRAB;
CRUSTACEAN; SNAIL; MOLLUSK; ENVIRONMENT; ENERGY; TROPHIC LEVEL; DETRITUS
UNIT; LAB EX
T : H

SCHWEITZER, J.
AS THE WORLD TURNS: THE CORIOLIS EFFECT
LA: LSU MAR SCI TEACH AID; 4PP.
CORIOLIS EFFECT; PHYSICS; CURRENT
ARTICLE; DEMO
T : H

STEGNER, R.
AUDIO-VISUAL AIDS, GAMES AND ART FOR MARINE ENVIRONMENT STUDIES
DE: PROJ CCAST, UNIV OF CO; SG PROG; 89PP.
FILM LIST; FILMSTRIP LIST; SIMULATION GAME; ART; PHOTOGRAPHY; LITERATURE
REFERENCE
T : P U I H A

MARINE ADVISORY SERVICE
THE BARNACLE FACT SHEET
RI: MAR ADV SERV, NCA A SG, UNIV OF RI; 2PP.
BARNACLE; CRUSTACEAN; BIOLOGY; REPRODUCTION; LIFE CYCLE
ARTICLE
T S : I H
1976
BIRD, N.
BEACHES - SHIFTING SANDS OF GOLD
SC: SC SG, 4-H MAR ACT, CLEMSON UNIV; 8PP.
BEACH; EROSION; WAVE; WIND; TIDE; PROFILE; GEOLOGY
FIELD GUIDE
T : I H

1976
MARTIN COUNTY SCHOOLS
EIGHTH GRADE: BEACH INVESTIGATION
FL: MARTIN COUNTY SCHOOLS ENVIRON STUD CEN, JENSEN BCH, FL; 90PP.
BEACH; PROFILE; SAND; LONGSHORE CURRENT; WAVE; CURRENT; DENSITY; PHYSICS;
PLANT; IDENTIFICATION; ADAPATION; SALINITY; DUNE; WEATHER
UNIT
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1973
MORGAN, F.
A BIBLIOGRAPHY OF ELEMENTARY AND SECONDARY MARINE SCIENCE CURRICULUM
PROJECTS AND EDUCATIONAL MATERIALS
RI: SG, UNIV OF RI, MAR BULL SER NC 15; 23PP.
FILM LIST; BIBLIOGRAPHY
REFERENCE; FILM LIST
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1976
LEE, R.; WRIGHT, F.
BIBLIOGRAPHY OF MARINE TEACHING MATERIALS
AK: MAR JCV PROG, COOP EXT SERV, UNIV OF AK, ANCHORAGE, AK; 40PP.
FILM LIST; BIBLIOGRAPHY
REFERENCE; FILM LIST
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1971
SCHWEITZER, J.
A BIBLIOGRAPHY OF POPULAR BOOKS ON THE MARINE ENVIRONMENT AND WETLANDS
ECOLOGY
DE: MAR ENVIRON CURR STUD, COLL OF EDUC, UNIV OF DE, NEWARK, DE, 24PP.
BIBLIOGRAPHY
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T : P U I H
1943
NEWCOMBE, C.
THE BIOLOGY AND CONSERVATION OF THE BLUE CRAB
VA: VA FISH LAB OF THE COLL OF WILLIAM AND MARY AND COMM OF FISH, ED SERNO 3; 14PP.
BIOLOGY; CRAB; CRUSTACEAN; REPRODUCTION; LIFE CYCLE; MIGRATION; FISHERY
T: H A

1949
NEWCOMBE, C.
THE BIOLOGY AND CONSERVATION OF THE BLUE CRAB, CALLINECTES SAPIDUS RATHBUN
VA: VA FISH LAB OF THE COLL OF WILLIAM AND MARY AND COMM OF FISH, EDUC SER NO 4; 39PP.
BIOLOGY; CRAB; CRUSTACEAN; FISHERY; LIFE CYCLE; REPRODUCTION; MIGRATION;
NUTRITION
T: H A

1949
BAILEY, P.
THE BLUE CRAB - A STUDY FOR SECONDARY SCHOOL PUPILS, TEACHER SUPPLEMENT
VA: VA FISH LAB, YORKTOWN, VA; 4PP.
BIOLOGY; CRAB; CRUSTACEAN; COLLECTING; ADAPTATION
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T: I H

1968
WOMETCO ENTERPRISES INC.
BOOKS AND ARTICLES ABOUT THE SEA
FL: SEAQUARIUM SCI SER 1, WOMETCO MIAMI SEAQUARIUM, RICKENBACKER CAUSEWAY,
MIAMI, FL; 31PP.
BIBLIOGRAPHY; PERIODICALS
REFERENCE
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1971
NEW ENGLAND MARINE RESOURCES INFORMATION PROGRAM
CAREER AND EDUCATION BIBLIOGRAPHY
RI: NEMRIP, NARRAGANSETT BAY CAMPUS, UNIV OF RI, NARRAGANSETT, RI; 7PP.
BIBLIOGRAPHY; CAREER
REFERENCE
T S : I H

1971
BAILEY, R.
CAREERS IN MARINE SCIENCE
VA: EDUC SER NO 14, VA INST OF MAR SCI, GLOUCESTER PT, VA; 11PP.
CAREER; TRAINING
ARTICLE
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1976
NEAL, V.
CAREERS IN OCEANOGRAPHY
RI: OR STATE UNIV; 8PP.
CAREER; TRAINING; EMPLOYMENT
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1977
STEGNER, R.
A CATALOG OF CURRICULUM MATERIALS FOR MARINE ENVIRONMENT STUDIES
DE: PROJ COAST, UNIV OF DE, SG PROG, NEWARK, DE; 38PP.
BIBLIOGRAPHY; BIOLOGY; CHEMISTRY; PHYSICS; GEOLOGY
REFERENCE; CURRICULUM
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N.C.
WILLIAMS, J.
THE CHESAPEAKE HERITAGE PROJECT: METHODS MANUAL
MD: CHESAPEAKE BAY FOUN, ANNAPOLIS, MD; 18PP.
SALINITY; OXYGEN; WETLAND; PLANT; CHEMISTRY; BIOLOGY
FIELD GUIDE
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000031
1975
SCHWEITZER, J.
CIRCULATION IN ESTUARIES
LA: LSU MAR SCI TEACH AID, CENT FOR WETLAND RESOURCES, LSU, BATON
ROUGE, LA; 8PP.
ESTUARY; CIRCULATION; CORIOLIS EFFECT; PHYSICS
ARTICLE, LAB EX
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000032
1976
LEE, R.
CLOSE-UP PHOTOGRAPHY FOR THE MARINE SCIENCE CLASSROOM
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LIMNOLOGY; OIL; PLANT; ALGAE; PLANKTON; PHOTOGRAPHY
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CHEMISTRY; OXYGEN; TURBIDITY; PH; WATER QUALITY; BACTERIA; FILTRATION;
BIOLOGY; POLLUTION; PLANKTON; IDENTIFICATION; ALGAE; PROTOZOAN;
CRUSTACEAN; BENTOS; BOTTOM GRAB; LIMNOLOGY; NEKTOR; ENGINEERING; PHYSICS;
STREAM; FIELD TRIP; BIBLIOGRAPHY; FILM LIST
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TAYLOR, B.
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NC: REG MAR SCI PROJ, CARTERET CCUN PUBLIC SCHOOLS, BEAUFORT, NC; 39PP.
FIELD TRIP; OUTER BANKS; PLANT; BEACH; MARITIME FOREST;
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FL: MARTIN COUN SCHOOLS, ENVIRON STUD CNT, JENSEN BCH, FL; 10PP.
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DC: SPORT FISHING INST, WASHINGTON, DC; 33PP.
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COELENTERATE; MOLLUSK; CRUSTACEAN; HORSESHOE CRAB; ECHINODERM; FISH;
FOOD WEB; PROTECTION; ZONATION; REPRODUCTION; STREAM; BIOLOGY
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OR: EXT SERV; OR STATE UNIV, CORVALLIS, OR; 28PP.
TIDE; WAVE; CURRENT; PHYSICS; FIELD TRIP; ZONATION; AQUARIUM; COLLECTING;
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FIELD GUIDE; ARTS AND CRAFTS
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CSIS, V.; GILES, D.
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OR: EXT SERV; OR STATE UNIV, CORVALLIS, OR; 36PP.
PHYSICS; TIDE; WAVE; BEACH; CURRENT; LONGSHORE CURRENT; PLANKTON; FOOD WEB;
SALTWATER AQUARIUM; ALGAE; BIOLOGY; HARVESTING; CRAB; SEAFOOD; FIELD TRIP
FIELD GUIDE; ARTS AND CRAFTS
T: P U I H

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1975
CSIS, V.; GILES, D.
4-H OCEAN ADVENTURES MEMBER'S BOOK
OR: EXT SERV; OR STATE UNIV, CORVALLIS, OR; 13PP.
TIDE; OCEAN FLOOR; CURRENT; HARVESTING; FIELD TRIP; IDENTIFICATION;
ZONATION; PHYSICS; BIOLOGY
WORKBOOK
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NIEKEWER, V.; MARTIN, D.
A GUIDE TO THE IDENTIFICATION OF THE MARINE PLANTS AND INVERTEBRATE
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VA: EDUC SER NO 13, VA INST OF MAR SCI, GLouceSTER PT, VA; 82PP.
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GEOLOGY; COASTAL PLAIN; TIDE; CHEMISTRY; PLANKTON; PROTOZOA; SPONGE;
COELENTERATE; ECHINODERM; INSECT; CRUSTACEAN; MOLLUSK; CRAB; FISH;
LIFE CYCLE; HARVESTING; SEAFOOD; NUTRITION; CLAM; MUSSELM; CRAB; FISH;
FISHERY; REPRODUCTION; FIELD TRIP; SALTWATER AQUARIUM
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FL: MARTIN COUNTY SCHOOLS, ENVIRON STUD GENT, JENSEN BCH, FL; 35PP.
ENVIRONMENT; SHRIMP; SNAIL; CRAB; BIRD; FISH; CRUSTACEAN; MOLLUSK; BIOLOGY
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RI: MAR BULL NO 12, UNIV OF RI, KINGSTON, RI; 116PP.
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CRAYFISH; LOBSTER; SHRIMP; HORSESHOE CRAB; ECHINODERM; SAND DOLLAR;
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RECIPE; BIOLOGY
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NC: REG MAR SCI PROJ, BEAUFORT, NC; 151PP.
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OCEAN FLOOR; BEACH; ZONATION; INTERTIDAL AREA; PLANT; WAVE; TIDE;
CURRENT; SALINITY; TEMPERATURE; FIELD TRIP; DENSITY; GRAVITY; SAND;
DUNE
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NC: REG MAR SCI PROJ, BEAUFORT, NC; 129PP.
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PHOTOSYNTHESIS; COASTLINE; WETLAND; IDENTIFICATION; FISH; FIELD TRIP;
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RI: UNIV OF RI, MAR ADV SERV, NCAA SG; 2PP.
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UNIT
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IDENTIFICATION; BIOLOGY
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BIOLOGY; GEOLOGY
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VA: SG EXT DIV, VPI & SU, BLACKSBURG, VA; 38PP.
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WORM; SEAWEED; LIMPET; BIOLOGY
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LAB EX; FIELD GUIDE
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FL: MAR SCI 4-H SPEC INTEREST SER, FL COOP EXT SERV, UNIV OF FL,
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SHAVER, T.
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UNKNOWN; 8PP.
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BAILEY, R.
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VA: CHRISTCHURCH SCHCOL; 4PP.
OYSTER; MOLLUSK; BIOLOGY; ANATOMY
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MASSACHUSETTS MARINE EDUCATORS, NEW ENGLAND MARINE RESOURCES
INFORMATION PROGRAM, NEW ENGLAND AQUARIUM, SUFFOLK UNIVERSITY
LAB AND FIELD ACTIVITIES AND IMPROVISED EQUIPMENT
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ART; NAVIGATION; LATITUDE; LONGITUDE; TIDE; WIND; CURRENT; OCEAN FLOOR;
GEOLGY; COASTLINE; WAVE; BEACH; DUNE; PLATE TECTONICS; TURBIDITY;
DENSITY; SALINITY; LIGHT; PHYSICS; EQUIPMENT
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HABITAT; LITERATURE; BIOLOGY
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DAVY JONES: LOCKER
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NC: VCCAT MAT LAB, DIV OF VOCAT EDUC, STATE DEPT OF PUB INSTRUC, RALEIGH, NC; 53PP.
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ARTICLE
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HI: SG COLL PKG, UNIV OF HI, HONOLULU, HI; 57PP.
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SHELL; FISH; COELENTERATE; ALGAE; SEAFOOD; CRUSTACEAN; SEA CUCUMBER;
ECHINODERM; PLANT; WAVE; TIDE; PHYSICS; TSUNAMI; BENTHOS; NEKTION;
PLANKTON; FOOD WEB; ADAPTATION; SHARK; SYMBIOSIS; PROTECTION;
REGENERATION; REPRODUCTION; CURRENT; RESOURCE; PLATE TECTONICS; GEOLOGY;
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PRESSURE; SEDIMENT
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HI: SG COLL PROG; UNIV OF HI, HONOLULU, HI; 32PP.
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PLANKTON; ADAPTATION; SHARK; SYMBIOSIS; PROTECTION; HARVESTING;
OCEAN FLOOR; GEOLOGY; PLATE TECTONICS; FOOD WEB; ALGAE; ART
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FISH; FISHERY; RESOURCE; ALGAE; SEAFOOD; RECIPE; GEOLOGY; SAFETY;
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SHRIMP; BARNACLE; SHELL; HERMIT CRAB; MOLLUSK; MUSSEL; ANATOMY; SNAIL;
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BIBLIOGRAPHY; BIOLOGY; PHYSICS; FRESH WATER; PROFILE; SOUND; SHIPBUILDING;
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WORM; CRUSTACEAN; ECHINODERM; FISH; LOCOMOTION; HERMIT CRAB; ANEMONE;
STARFISH; CLAM; SCALLOP; SNAIL; SQUID; SHRIMP; BEHAVIOR; BEACHCOMBING;
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OCEAN FLOOR; GEOLOGY; PLATE TECTONICS; SPONGE; COELENTERATE; MOLLUSK;
CRUSTACEAN; ECHINODERM; SHARK; REPTILE; BIRD; MAMMAL; PLANKTON; SEAWEED;
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CORAL; EROSION; ICE; WIND; HISTORY; WAVE; TIDE; SALINITY; DENSITY;
PHOTOSYNTHESIS; TEMPERATURE; RESOURCE; HABITAT; ZONATION;
INTERTIDAL AREA; DUNE; BEACH; WETLAND; PLANKTON; FOOD WEB; NUTRITION;
SEAWEED; SPONGE; COELENTERATE; ANEMONE; WORM; SEA STAR; SEA URCHIN;
CRUSTACEAN; LOBSTER; HERMIT CRAB; BARNACLE; FOSSIL; HORSESHOE CRAB;
MOLLUSK; CLAM; OYSTER; OCTOPUS; SQUID; ADAPTATION; FISH; SHARK;
LIFE CYCLE; AMPHIBIAN; REPTILE; MAMMAL; WHALE; DOLPHIN; PORPOISE; MUDFLAT;
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CRUSTACEAN; ANEMONE; COELENTERATE; SEA CUCUMBER; ECHINODERM; SEA URCHIN;
SEA STAR; SAND COLLAR; SEAL; CITER; MAMMAL; SEAFOOD; CHEMISTRY;
CURRENT; PHYSICS; SANDB; GEOLOGY; TIDE; WAVE; WEATHER
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PARMER, C.
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CHAPMAN, F.
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FIELD GUIDE
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UNKNOWN
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COELENTERATE; BIOLOGY
ARTICLE
T S : I H
SCHLENKER, R.
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FOOD WEB; PLANKTON; ANATOMY; FISH; OXYGEN; TEMPERATURE; SALINITY;
VOCABULARY; MATH; FIELD TRIP; BEACH; HISTORY; ENVIRONMENT;
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WAVE
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FISH; WHALE; MAMMAL; TIDE; LIGHT; COMMUNICATION; SEAWEED; ALGAE;
TEMPERATURE; BIRD; TSUNAMI; NUTRITION; AQUACULTURE; CAREER; EMPLOYMENT;
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SALTWATER AQUARIUM; EQUIPMENT; HERMIT CRAB; BIOLOGY; COASTLINE; ZONATION;
BEHAVIOR; ANATOMY; IDENTIFICATION; TIDE POOL; TEMPERATURE; PLANT;
SEAWEED; CRAB; SHRIMP; CRUSTACEAN; ISOPOD; BARNACLE; SEA STAR;
SEA URCHIN; SEA CUCUMBER; ECHINODERM; SNAIL; MOLLUSK; OYSTER; CLAM;
SCALLOP; ANEMONE; CCELENTERATE; HABITAT; REPRODUCTION; SALINITY; LIGHT;
CORAL; VOCABULARY; CHEMISTRY; REEF; SEAFOOD; RECIPE; BENTHOS; NEKTON;
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FISH; OCTOPUS; SEAL; MAMMAL; BIRD; SNAIL; SEA CUCUMBER
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GEOLGY; TURBIDITY; VOCABULARY; ENVIRONMENT; PLANT; MANGROVE;
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TIDE; SALINITY; TEMPERATURE; VOCABULARY; DENSITY
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ESTUARY; BARNACLE; ANEMONE; CCELENTERATE; BEACH; CUNE; SAND; WAVE; GEOLOGY
UNIT
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GEOLGY; SALINITY; CURRENT; EQUIPMENT; FIELD TRIP; BEACH
UNIT
T : I

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CHAPMAN, F.
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SCALLOP; MOLLUSK; OYSTER; FISH; AQUACULTURE; BIOLOGY; VOCABULARY;
TRANSPORTATION; EQUIPMENT; RESOURCE; CONSERVATION
UNIT
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RESOURCE; CONSERVATION
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DUSHANE, J.
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TRAINING; INSECT; DIRECTORY
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PHYSICS
LESSON PLAN
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UNKNOWN
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UNIT
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DUNE; SALTWATER AQUARIUM
REFERENCE; CURRICULUM
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POLLUTION; ENVIRONMENT; OIL; HISTORY; REVIEW; CHEMISTRY; BIOLOGY; PHYSICS;
GEOLGY; PLATE TECTONICS; FIELD TRIP; MOLLUSK; IDENTIFICATION; TIDE POOL;
INTERTIDAL AREA; ADAPTATION; ZONATION; WETLAND; PLANT; FOOD WEB;
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OYSTER; SNAIL; CRUSTACEAN; SHRIMP; CRAB; LOBSTER; ECHINODERM; SEA STAR;
SEA URCHIN; SAND DOLLAR; SEA CUCUMBER; ART; LITERATURE; SEAFOOD; PLANKTON;
SEAWEED; LIGHT; IDENTIFICATION; FRESH WATER; AQUARIUM; BIBLIOGRAPHY;
FILM LIST
UNIT
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LOCOMOTION; LITERATURE; ANATOMY; REPRODUCTION; CRAB; CRUSTACEAN;
HORSESHOE CRAB; HERMIT CRAB; SHELL; OCTOPUS; MOLLUSK; PROTECTION;
BIBLIOGRAPHY; FILM LIST
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Intertidal Area; Coelenterate; Anemone; Coral; Mollusk; Clam; Mussel;
Scallop; Oyster; Snail; Shrimp; Crab; Lobster; Echinoderm; Sea Star;
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Octopus; Shark; Seafood; Resource; Transportation; Career; Recreation;
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Plant; Algae; Food Web
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MIGRATION; BEHAVIOR; SEAFOOD; DIRECTORY
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IDENTIFICATION; BIOLOGY; PROTOZOA; SPONGE; ECHINODERM; COELENTERATE;
CTENOPHORE; WORM; MOLLUSK; CRUSTACEAN
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ECHINODERM; FISH; BIBLIOGRAPHY
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COLLECTING; ANATOMY; BIBLIOGRAPHY
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ROSE, C.
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ECHINODERM; SPONGE; WORM; CRAB; FISH; BIBLIOGRAPHY
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COLLECTING; SALINITY; BACTERIA; ALGAE; BICLUMINESCENCE; IDENTIFICATION;
PLANKTON; SPONGE; BIOLOGY; COELETERATE; MOLLUSK; HORSESHOE CRAB; ANATOMY;
CRUSTACEAN; BARNACLE; LIFE CYCLE; CRAB; REPRODUCTION; SHRIMP; ECONOMICS;
LOBSTER; SEA URCHIN; ECHINODERM; FISH; SHARK; LIGHT; POPULATION; SEAWEED;
ART; MATH; PERIODICALS; FILM LIST
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BIBLIOGRAPHY; VOCABULARY; FOOD WEB; ENERGY; ENVIRONMENT; BIOLOGY; PROFILE;
WIND; TEMPERATURE; SALINITY; OXYGEN; DEPTH; LIGHT; PLANT; SAND; BIRD;
FISH; TRANSPORTATION; INDUSTRY; SEAFOOD; RECREATION; POLLUTION;
MANGROVE; WETLAND; GRASSFLAT; HABITAT; ZONATION; FRESH WATER; PLANKTON;
COLETERATE; CTENOPHORE; MOLLUSK; CRUSTACEAN; HORSEHSE CRAB; PUZZLE
CURRICLLUM
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ARTICLE
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FISHER, J.; JONES, J.
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SPONGE; BIOLOGY; ANATOMY
ARTICLE
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MS: MAR EDUC CENT, BILoxi, MS; 3PP.
SQUID; MOLLUSK; BIOLOGY; ANATOMY; PROTECTION; FISHERY
ARTICLE
T S : I H

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N.D.
UNKNOWN
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SAFETY; STINGRAY; SEAFOOD
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PLANT; BEACH; SAND; ZONATION; INTRITIAL AREA; WETLAND; SEAFOOD;
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INTERTIDAL AREA; IDENTIFICATION; HABITAT; ANATOMY; LITERATURE; MUSIC; ART;
SEA URCHIN; ECHINODERM; LOCOMOTION; COLLECTING; SEAWEED; SAND; CHEMISTRY;
VOCABULARY; PHYSICS; SEA CUCUMBER; SEA STAR; CRAB; CRUSTACEAN; SNAIL;
MOLLUSK; LIMPET; SHRIMP; ANEMONE; COELENTERATE; FISH; BARNACLE; WORM;
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MOLLUSK; LIMPET; CLAM; SCALLOP; OYSTER; SNAIL; SHELL; SQUID; FISH;
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FIELD TRIP; PHOTOGRAPHY; DIVING; HERITAGE; TRADE; MILITARY; ART;
LITERATURE; FISHERY; RECREATION; SHELL; MOLLUSK; HISTORY; FOSSIL; ANATOMY;
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CURRENT; PHYSICS; OIL; REVIEW; PROTECTION; CCOPEPOD; UPWELLING;
PHOTOSYNTHESIS; CAREER; GEOLOGY; MANAGEMENT; TRANSPORTATION; AQUACULTURE;
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WETLAND; ADAPATION; REPRODUCTION; SHELL; BEACH; GEOLOGY; ZONATION; TIDE;
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ARTICLE
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POLLUTION; ENVIRONMENT; BIRD; CONSERVATION
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BIRD; MAMMAL; BIOLUMINESCE; BEACH; GRAVITY; ENERGY; ZONATION; SEDIMENT;
ADAPTATION; INTERTIDAL AREA; SALINITY; POLLUTION; NAVIGATION; PROTOZOA;
BEHAVIOR; HYDRA; LITERATURE; BACTERIA; CONSERVATION; MUSIC; RECREATION;
BIOLOGY; PHYSICS; GEOLOGY; CHEMISTRY; OCEAN FLOOR; COLLECTING; FIELD TRIP;
MATH; VOCABULARY; WAVE; CURRENT; TIDE; LABORATORY; SHELL;
REPRODUCTION; RESPIRATION; HORSESHOE CRAB; FOSSIL; LOCAL MOTION; DIGESTION;
EXCRETION; TUNICATE; PROTECTION; IDENTIFICATION; SAND; FOOD WEB; SOUN;
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 HUMANITIES; ART; ECONOMICS; HISTORY; BIBLIOGRAPHY; SEAWEED; SEAFOOD;
 AQUACULTURE; TRANSPORTATION; MILITARY; TIDE; EROSION; UPWELLING; FISH;
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WIND; TSUNAMI; CURRENT; NAVIGATION; CORIOLIS EFFECT; COASTLINE; BIOLOGY;
POPULATION; AQUACULTURE; PLANKTON; ALGAE; LIMNOLOGY; CAREER
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